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THYRATRON MERCURY-VAPOR TETRODE

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Electrical:DATA

	<u>Continuous Service</u>		<u>Intermittent Service</u>		
Heater, for Unipotential Cathode:					
Voltage*	5.0	5.0	5.5	5.0	volts
Current.	10.0	10.0	11.0	10.0	amp
Direct Interelctrode Capacitance:					
Grid-No.1 to Anode (Approx.)	0.3	0.3	0.3	0.3	μuf
Peak Voltage Drop (Approx.). .	16	16	16	16	volts
Approx. Control Characteristics:					
Anode Voltage.	100	1000	100	1000	volts
Grid-No.2 Voltage.	0	0	0	0	volts
Grid-No.1 Voltage.	+1	-9	+1	-9	volts
Ionization Time (Approx.). . .	10	10	10	10	μsec.
Deionization Time (Approx.). .	1000	1000	1000	1000	μsec.

Mechanical:

Mounting Position.	Vertical, Base Down
Overall Length	11" ± 1/4"
Seated Length.	10-1/4" ± 1/4"
Greatest Radius.	2-13/16"
Bulb	ST-30
Caps	No. 3917
Base	Super-Jumbo 4-Pin, with Bayonet

Maximum Ratings, Absolute Valuss:

	<u>Continuous Service</u>	<u>Intermittent Service</u>		
PEAK FORWARD ANODE VOLT.	2500	750	10000	max.volts
PEAK INVERSE ANODE VOLT.	2500	750	10000	max.volts
GRID-No.1 (CONT.GRID) VOLT.:				
Before Conduction.	-1000	-1000	-1000	max.volts
During Conduction.	-10	-10	-10	max.volts
GRID-No.2 (SH'LD GRID) VOLT.:				
Before Conduction.	-500	-500	-500	max.volts
During Conduction.	-10	-10	-10	max.volts
INSTANTANEOUS ANODE CUR.:				
Below 25 Cycles.	12.8	5.0	8.0	max.amp
25 Cycles and Higher	40	77	16	max.amp
AVERAGE ANODE CURRENT.	6.4	2.5	4.0	max.amp
SURGE ANODE CUR., for				
0.1 sec.; max.	400	400	160	max.amp
INSTANTANEOUS GRID-No.1 CUR. . .	1.0	1.0	1.0	max.amp
AVERAGE GRID-No.1 CUR.	0.25	0.25	0.25	max.amp
INSTANTANEOUS GRID-No.2 CUR. . .	2.0	2.0	2.0	max.amp
AVERAGE GRID-No.2 CUR.	0.5	0.5	0.5	max.amp
TIME OF AVERAGING CURRENT . . .	15	5	15	max.sec
COND.-MERCURY TEMP. RANGE [▲] . .	40-80	30-95	25-50	°C

* Must be applied 5 minutes before anode voltage is applied.

▲ Recommended condensed-mercury temperature = 40°C.

MAY 1, 1946

TUBE DIVISION

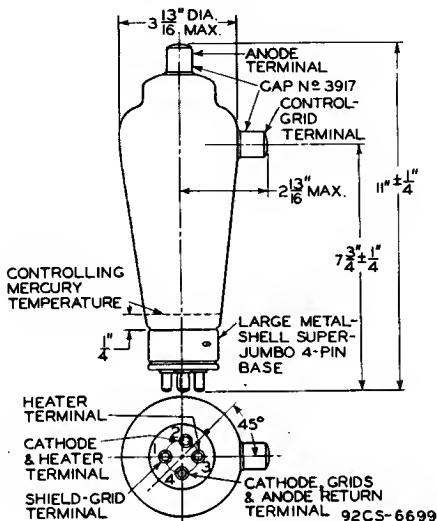
TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY



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THYRATRON

OPERATIONAL REGION
OF CRITICAL GRID VOLTAGE